

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/082999 A2

- (51) International Patent Classification⁷: **C08L 33/04**, C08K 3/00, 3/20, 3/04
- (21) International Application Number: PCT/US2005/000897
- (22) International Filing Date: 13 January 2005 (13.01.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2004-037095 13 February 2004 (13.02.2004) JP
- (71) Applicant (for all designated States except US): **3M INNOVATIVE PROPERTIES COMPANY** [US/US]; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **HIROSHIGE, Yuji** [JP/JP]; 8-8 Minami Hashimoto 3-chome, Sagami-hara, Kanagawa 229-1185 (JP). **YAMAZAKI, Yoshinao** [JP/JP]; 8-8 Minami Hashimoto 3-chome, Sagami-hara, Kanagawa 229-1185 (JP). **NAKAMURA, Sawako** [JP/JP]; 8-8 Minami Hashimoto 3-chome, Sagami-hara, Kanagawa 229-1185 (JP).
- (74) Agents: **BARDELL, Scott, A.** et al.; Office of Intellectual Property Counsel, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FLAME-RETARDANT ACRYLIC-BASED THERMALLY CONDUCTIVE SHEET

(57) Abstract: A thermally conductive sheet made of a composition comprising (A) a (meth)acrylic polymer, (B) a halogen-free flame retardant selected from the group consisting of an organophosphorus compound, a triazine skeleton-containing compound, an expanded graphite and polyphenylene ether, and (C) a hydrated metal compound, wherein the composition including the hydrated metal compound in an amount of 40-90 vol% of the total volume of the composition.

WO 2005/082999 A2